



### **Senior Air Quality Engineer**

Agency Code: 4299 Class Code: 9943 Exam Code: 0PB43

Department(s): Department of Consumer Affairs  
Opening Date: 10/26/2010 9:00:00 AM  
Final Filing Date: Continuous  
Type of Examination: Departmental Open  
Salary: \$7377.00 to \$9234.00

#### **EQUAL EMPLOYMENT OPPORTUNITY**

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right of family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding and related medical conditions), and sexual orientation.

#### **DRUG-FREE STATEMENT**

It is an objective of the State of California to achieve a drug-free State work place. Any applicant for State employment will be expected to behave in accordance with this objective, because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.

#### **WHO SHOULD APPLY?**

Applicants who meet the Minimum Qualifications as stated on this bulletin may apply for and take this Training and Experience Evaluation at any time.

Once you have taken the Training and Experience Evaluation, you may not retake it for 6 months.

#### **SPECIAL TESTING ARRANGEMENTS**

If you have a disability and/or need special testing arrangements you will be able to request a reasonable accommodation during the filing and self-scheduling process.

If you have questions, please contact:

California Department of Human Resources Selection Division  
1-866-844-8671

California Relay Service (7-1-1)

Telecommunications Device for the Deaf (TTY) (916) 654-6336

TTY is a telecommunications device that is reachable only from phones equipped with a TTY device.

#### ELIGIBLE LIST INFORMATION

An open, merged eligible list will be established by the California Department of Human Resources for use by the Department of Consumer Affairs. The names of successful competitors will be merged onto the eligible list in order of final score regardless of test date. Eligibility expires 12 months after it is established. Competitors must then retake the Training and Experience Evaluation to reestablish eligibility.

#### REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION

**NOTE:** All applicants must meet the education and/or experience requirements as stated on this examination bulletin as of the date the test is taken.

#### MINIMUM QUALIFICATIONS

EITHER I

One year of experience in the California state service performing the duties of an Air Quality Engineer II, Department of Consumer Affairs.

OR II

Two years of experience in the California state service performing the duties of an Air Quality Engineer I, Department of Consumer Affairs, Range C.

OR III

Three years of experience in air quality control monitoring, regulation, research and development, air quality and emissions data collection and analysis; and two years of experience in a full supervisory capacity (1) directing technical staff involved in the development, implementation, or statistical analysis of the vehicle emissions inspection program or enhancements to the program and/or in the evaluation and development of advanced emissions diagnostic and repair processes; or (2) directing recognized technical experts, developing complex studies in air quality control or a closely related field.

(Possession of a Bachelor's Degree in Environmental Sciences, Physics, Chemistry, Mathematics, Engineering, or a closely related field may be substituted for two years of experience; possession of a Master's or Doctoral Degree in the same fields may be substituted for three years of experience. Education experience may not be substituted for supervisory experience.)

#### POSITION DESCRIPTION

This is the working supervisory level in this series. Under general direction, incumbents perform the most difficult, varied, and complex engineering work; supervise and train a staff of subordinate engineers and technical staff; and do other related work.

#### EXAMINATION INFORMATION

## TRAINING AND EXPERIENCE EVALUATION – Weighted 100%

The examination will consist solely of a Training and Experience Evaluation. To obtain a position on the eligible list, a minimum score of 70% must be received. An applicant will receive his/her score upon completion of the Training and Experience Evaluation process.

[Click here to preview the Examination.](#)

### KNOWLEDGE AND ABILITIES

Knowledge of:

1. Provisions of the Automotive Repair Act and the Vehicle Inspection and Maintenance Program.
2. Industry standards for diagnosis and repair of automobiles.
3. Tools, equipment, and methods used in the repair, adjustment, and servicing of automobiles and automotive pollution control systems.
4. Maintenance and calibration of test equipment.
5. Use and operation of automotive emissions measuring devices, and methods of testing safety-related automotive equipment such as engine cooling systems, fluid systems, and brake systems in conformance with the California Vehicle Code.
6. Engineering, physics, chemistry, mathematics, and computer science, as related to air quality.
7. Research methods.
8. Methods of statistical analysis.
9. Methods of measuring automotive emissions.
10. Laws and regulations applicable to motor vehicle emission control.
11. Research techniques, including the planning of studies and investigations, determining of variables, and developing of reference materials.
12. Research reporting techniques.
13. Techniques and procedures for evaluating research results.
14. Mathematics, computer programming, and applications.
15. Department of Consumer Affairs, Air Resources Board, and Environmental Protection Agency policies and programs.
16. Principles of program management and personnel administration.
17. Manager's/supervisor's responsibility for promoting equal opportunity in hiring and employee development and promotion, and for maintaining a work environment that is free of discrimination and harassment.

Ability to:

1. Collect mobile source emission data.
2. Analyze data and reach sound conclusions.
3. Apply scientific methods and principles.
4. Analyze situations and take effective action.
5. Work cooperatively with others.
6. Prepare clear, complete, and technically accurate reports.
7. Communicate effectively.
8. Prepare project plans; design studies.
9. Develop techniques for handling a large variety of detailed data and analyze these data.

10. Communicate the results and implications of studies to nonspecialists.
11. Do unusual and difficult research and analytical work.
12. Plan, organize, and direct the work of others.
13. Interpret policies and develop proposals for policies and procedures.
14. Effectively promote equal opportunity in employment and maintain a work environment that is free of harassment and discrimination.

#### VETERANS' PREFERENCE

Veterans' Preference will be granted for this examination. Effective January 1, 2014, in accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, widow or widower of a veteran, or spouse of a 100 percent-disabled veteran achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligibility list. This section shall not apply to any veteran who has been dishonorably discharged or released.

#### CAREER CREDITS

Career Credits **will not** be added to the final score for this exam, because it does not meet the requirements to qualify for Career Credits.

#### CONTACT INFORMATION

If you have any questions concerning this announcement, please contact:

The California Department of Human Resources Selection Division

1515 S Street, North Building, Suite 400

Sacramento, CA 95811-7258

1-866 844-8671

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#### GENERAL INFORMATION

**For an examination with a written feature**, it is the candidate's responsibility to contact the testing department three weeks after the Final Filing Date if he/she has not received his/her notice.

**If a candidate's notice** of written test fails to reach him/her 3 days prior to their scheduled appointment., he/she must contact CalHR at 1-866-844-8671.

**Examination Locations:** When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. However, locations may be limited or extended as conditions warrant.

**Applications are available** at [www.jobs.ca.gov](http://www.jobs.ca.gov) and local offices of the Employment Development Department.

**If you meet the requirements** stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be rated against a predetermined job-related rating, and all candidates who pass will be ranked according to their scores.

**The California Department of Human Resources** reserves the right to revise the examination plan to better meet the needs of the service, should the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules, and all competitors will be notified.

**Candidates needing special testing arrangements** due to a disability must mark the appropriate box on the application and contact the testing department.

**Hiring Interview Scope:** In a hiring interview, in addition to the scope described in this bulletin, the panel will consider education, experience, personal development, personal traits, and fitness. In appraising experience, more weight may be given to the breadth and recency of pertinent experience, and evidence of the candidate's ability to accept and fulfill increasing responsibilities than to the length of his/her experience. Evaluation of a candidate's personal development will include consideration of his/her recognition of his/her own training needs; his/her plans for self-development; and the progress he/she has made in his/her efforts toward self-development. For more information, you may refer to the [classification specification here](#).

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, the ability to work cooperatively with others, and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history, and fingerprinting may be required.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) service-wide promotional, 5) departmental open, and 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

**Veterans' Preference:** Effective January 1, 2014, in accordance with Government Codes 18973.1 and 18973.5, Veterans' Preference will be awarded as follows: 1) Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an entrance examination, shall be ranked in the top rank of the resulting eligibility list. Any veteran who has been dishonorably discharged or released is not eligible for Veterans' Preference. 2) An entrance examination is defined, under the law, as any open competitive examination. And 3) Veterans' Preference is not granted once a person achieves permanent civil service status.

Veteran status is verified by the California Department of Human Resources (CalHR). Directions to apply for Veterans' Preference are on the Veterans' Preference Application (Std. Form 1093), which is available at <https://jobs.ca.gov/Public/Jobs/Veterans.aspx>, and the Department of Veterans Affairs.

**Bulletin Revision Date: 1/30/2015**

**TAKING THE EXAM**

When you click the link below, you will be directed to the Training and Experience Evaluation. At the end of the Training and Experience Evaluation, it will be instantly scored.

[Click here to go to the Training and Experience Evaluation](#)

Additionally, if you have a disability please select the “Reasonable Accommodations” box during the self-scheduling process.

#### **FILING INSTRUCTIONS**

**Final Filing Date:** Continuous